

IN THE CLAIMS

Listing of Claims

Claims 1-3 (Cancelled).

4. (Previously Presented) A packet communication method in a packet communication system, the packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with both the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

a mobile communication terminal apparatus that performs communications with the base station apparatus by radio signals, and

the operator communication apparatus comprises:

a serving general packet radio service support node connected to the radio

network control apparatus through a relay network; and

a gateway general packet radio service support node connected between the serving general packet radio service support node and the communication network, and wherein:

the packet communication method comprises:

(a) transmitting an active packet data protocol context request from the mobile communication terminal apparatus to the serving general packet radio service support node, setting up a radio access bearer between the serving general packet radio service support node and the mobile communication terminal apparatus, transmitting an activate packet data protocol from the general packet radio service support node to the mobile communication terminal apparatus and establishing a session for packet transfer between the serving general packet radio service support node and the mobile communication terminal apparatus; and

(b) in the radio network control apparatus, when the mobile communication terminal apparatus accesses the internal server while the session for packet transfer is established between the serving general packet radio service support node and the mobile communication terminal apparatus, transmitting information that relates to internal server access and that is transmitted from the mobile communication terminal apparatus, to the serving general packet radio service support node, and transferring packets that are for the internal server and that are transmitted from the mobile communication terminal apparatus, directly to the internal server, without involving the serving general packet radio service support node.

Claims 5 and 6 (Cancelled).

7. (Previously Presented) A packet communication system comprising:

a user communication apparatus;

an operator communication apparatus that performs communications with the user communication apparatus; and

a communication network that performs communications with the user communication apparatus and the operator communication apparatus, wherein:

the user communication apparatus comprises:

an internal network;

a base station apparatus connected to the internal network;

an internal server connected to the internal network;

a radio network control apparatus connected between the internal network and the operator communication apparatus; and

a mobile communication terminal apparatus that performs communications with the base station apparatus by radio signals, and

the operator communication apparatus comprises:

a serving general packet radio service support node connected to the radio network control apparatus through a relay network; and

a gateway general packet radio service support node connected between the serving general packet radio service support node and the communication network, and

wherein:

the serving general packet radio service support node receives an active packet data protocol context request transmitted from the mobile communication terminal apparatus, sets up a radio access bearer between the serving general packet radio service support node and the mobile communication terminal apparatus, transmits an activate packet data protocol from the general packet radio service support node to the mobile communication terminal apparatus and establishes a session for packet transfer between the serving general packet radio service support node and the mobile communication terminal apparatus; and

when the mobile communication terminal apparatus accesses the internal server while the session for packet transfer is established between the serving general packet radio service support node and the mobile communication terminal apparatus, the radio network control apparatus transmits information that relates to internal server access and that is transmitted from the mobile communication terminal apparatus, to the serving general packet radio service support node, and transfers packets that are for the internal server and that are transmitted from the mobile communication terminal apparatus, directly to the internal server, without involving the serving general packet radio service support node.

Claims 8 and 9 (Cancelled).